

What is claimed is:**1. A data transmitter comprising:**

a detection means for detecting a reference time stamp from a packet data of a first transport stream;

5 an adding means for producing an output of the packet data of said first transport stream by adding thereto "m" bits ("m" represents a positive integer) of lower-order data in "n" bits ("n" represents a positive integer, and $n \geq m$) of said reference time stamp detected by said time stamp detection means, as a header information; and

10 a transmission means for converting the output of said adding means into a second transport stream, and transmitting said second transport stream.

2. The data transmitter according to claim 1, wherein said adding means adds a flag signifying either presence or absence of said "m" bits of data as a header information to the packet data of said first transport stream.

15 3. The data transmitter according to claim 1 or claim 2, wherein, said detection means further detects a program ID from the packet data of said first transport stream, and

20 said adding means further adds said program ID detected by said detection means as a header information to the packet data of said first transport stream.

25 4. The data transmitter according to claim 1 or claim 2, wherein, said detection means detects "n" bits of reference time stamp corresponding to a certain program ID from the packet data of said first transport stream.

5. A data receiver comprising:

a detection means for receiving a packet data having "m" bits ("m" represents a positive integer) of lower-order data in "n" bits ("n" represents a positive

integer, and $n \geq m$) of reference time stamp added to a header portion thereof, and detecting said "m" bits of data from said header portion; and

a clock generation means for generating a system clock from said "m" bits of data detected by said detection means.

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6. A data receiver comprising:

a detection means for receiving a packet data having “m” bits (“m” represents a positive integer) of lower-order data in “n” bits (“n” represents a positive integer, and $n \geq m$) of reference time stamp and a program ID added to a header portion thereof, detecting said program ID from said header portion, and further detecting said “m” bits of data corresponding to a certain program ID from said header portion; and

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a clock generation means for generating a system clock from said “m” bits of data detected by said detection means.